

PATENTAtty Docket No.: 200313170-1
App. Ser. No.: 10/780,631**REMARKS**

Favorable reconsideration of this application is respectfully requested in view of the claim amendments and following remarks. Claims 1-44 are pending in the present application of which claims 1, 20, 25, 34, and 39 are independent. Claim 1 has been amended herein.

No new matter has been introduced by way of the amendment to claim 1; entry thereof is therefore respectfully requested.

Claims 1-44 were rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over the disclosure contained in U.S. Patent Application Publication No. 2004/0256474 to Park et al. (hereinafter "Park") in view of U.S. Patent No. 6,397,869 to Jennings.

This rejection is respectfully traversed.

Examiner Interview Conducted

Applicants' representatives respectfully thank Examiner Bahta for the courtesies extended during the telephonic interview conducted on November 6, 2006. During the interview, the Examiner asserted that Park discloses "an airflow indicating device having a movable component whose movement substantially corresponds to airflow." The Examiner explained that "airflow" was being interpreted broadly as anything related to air, including temperature and humidity. Applicants' representatives explained that airflow is the directional movement of air, which is distinct from a simple temperature or humidity reading. Moreover, Applicants' representatives explained that the references cited in the Official Action fail to teach or suggest utilizing temperature or humidity readings to determine airflow.

PATENTAtty Docket No.: 200313170-1
App. Ser. No.: 10/780,631

The Examiner further stated that, while the robot of Park requires input to move, the input could be temperature. Applicants' representatives noted that neither Jennings nor Park suggest that the movement of the robot of Park was, or could be, influenced by temperature. In fact, Park discloses that the movement of the robot is controlled by input from a user, as is further discussed below. As such, neither Park nor Jennings discloses an airflow indicating device having a movable component whose movement substantially corresponds to airflow in a vicinity of the airflow indicating device.

Finally, the Examiner assured the Applicants' representatives that any subsequent rejection would be reviewed by a Supervisory Patent Examiner, which is the action suggested in MPEP 707.02.

Improper Official Action

It is respectfully submitted that the Official Action dated August 8, 2006 is improper because it fails to address each and every one of the pending claims. For instance, with respect to claims 2-5, which recite various movable components, the Official Action is completely silent as to which elements in any of the cited documents has been interpreted as reading on these claimed features. As another example, with respect to claim 20, the Official Action fails to indicate which elements in any of the cited documents has been interpreted to read on the claimed "plurality of movable components attached at various heights of the pole, wherein the plurality of movable components are configured to move in a direction of the airflow in a vicinity of the pole to thereby indicate the direction of airflow."

PATENT**Atty Docket No.: 200313170-1**
App. Ser. No.: 10/780,631

For at least the foregoing reasons, it is respectfully submitted that the Official Action dated August 8, 2006 is incomplete, and therefore, improper, and any subsequent Official Action cannot reasonably be made final.

Claim Rejection Under 35 U.S.C. §103

The test for determining if a claim is rendered obvious by one or more references for purposes of a rejection under 35 U.S.C. § 103 is set forth in MPEP § 706.02(j):

To establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art and not based on applicant's disclosure. *In re Vaeck*, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991).

Therefore, if the above-identified criteria are not met, then the cited reference(s) fails to render obvious the claimed invention and, thus, the claimed invention is distinguishable over the cited reference(s).

The Official Action sets forth a rejection of claims 1-44 under 35 U.S.C. § 103(a) as allegedly being unpatentable over the disclosure contained in Park in view of Jennings. This rejection is respectfully traversed because Park and Jennings considered singly or in combination, fail to teach or suggest the invention as set forth in independent claims 1, 20, 25, 34, 39, and the claims that depend therefrom.

At the outset, the Applicants note that at least claims 1-7, 13-19, and 25-44 appear to be rejected over Park alone, without relying upon the Jennings disclosure. This assumption

PATENT

Atty Docket No.: 200313170-1
App. Ser. No.: 10/780,631

is drawn from the fact that the Official Action does not refer to Jennings as teaching or suggesting any of the features of claims 1-7, 13-19, and 25-44. The Official Action appears to take the position that the only element Park fails to disclose is "the mechanical part of the movable sensor which is who the pole attach with the movable sensor," because the Official Action relies on Jennings only to provide an alleged teaching of this feature. It thus appears that the Official Action alleges that Park discloses all of the claimed features, except for a pole.

However, Park clearly fails to teach or suggest "an airflow indicating device having a movable component whose movement directly corresponds to a direction of airflow," as is recited by claim 1. The Official Action considers "airflow" to include temperature and humidity. However, in the claims, "airflow" refers to the direction air is moving or flowing, because it is indicated by a movable component whose movement corresponds to airflow, as recited in independent claims 1, 20, 25, 34, and 39. Independent claim 1 has been amended to refer to the "direction" of airflow. Independent claims 20, 25, 34, and 39 all recite "direction" of airflow, as originally filed. Therefore, "airflow" is not equivalent to a simple temperature reading.

Park discloses a movable robot having a temperature, humidity, and air cleanliness sensor, but Park does not teach or suggest an airflow sensor configured to move in a direction of airflow. See paragraph 17 in Park. The Official Action cites paragraph 34 of Park as allegedly teaching airflow detection. Paragraph 34 of Park, however, makes no mention of airflow and refers only to the mobile sensor taking a picture to recognize its position in a room. Therefore, Park clearly fails to teach or suggest an "airflow indicating

PATENT

Atty Docket No.: 200313170-1
App. Ser. No.: 10/780,631

device," because Park makes no mention of attempting to detect or determine airflow based on a temperature or humidity reading.

Even assuming for the sake of argument that Park could somehow be construed as disclosing an airflow sensor, Park fails to teach or suggest a device "whose movement directly corresponds to a direction of airflow." Park discloses a mobile sensor described in paragraph 28 as a mobile robot. Paragraphs 32-34 of Park state that the mobile sensor is controlled by the controller via input from a user, such as a voice command. Therefore, the movement of the mobile sensor of Park corresponds to a user's command and does not correspond to the direction of airflow in a vicinity of the mobile sensor.

Similarly, Jennings also fails to teach or suggest "an airflow indicating device having a movable component whose movement substantially corresponds to airflow." The Applicants note that such an allegation is not made in the Official Action. Instead, the Official Action erroneously states that Park discloses this feature and relies on Jennings only to provide a teaching of a polc. In fact, Jennings discloses a portable camping tent structure, which must clearly be construed as being directed to nonanalogous art with respect to Park and the proposed combination, therefore, is clearly improper.

For at least the reasons set forth above, the proposed combination of Park and Jennings fails to teach or suggest "a plurality of movable components configured to move in a direction of airflow...to thereby indicate the direction of airflow," as recited by claim 20.

In addition, the proposed combination of Park and Jennings fails to teach or suggest "determining airflow directions...determining whether the airflow directions are acceptable," and "manipulating...components to bring airflow directions within acceptable ranges," as

PATENT**Atty Docket No.: 200313170-1**
App. Ser. No.: 10/780,631

recited by claims 25, 34, and 39. Again, the Official Action has failed to address these features of claims 25, 34, and 39.

For at least the foregoing reasons, the proposed combination of Park and Jennings fails to teach or suggest the features of independent claims 1, 20, 25, 34, and 39. Dependent claims 2-19, 21-24, 26-33, 35-38, and 40-44 are at least allowable over the proposed combination of Park and Jennings by virtue of their respective dependencies on independent claims 1, 20, 25, 43, and 39. The Examiner is therefore respectfully requested to at the very least address all of the claimed features and to also withdraw the rejection of claims 1-44 and to allow these claims.

The proposed combination of Park and Jennings fails to disclose the features of dependent claims 2-19, 21-24, 26-33, 35-38, and 40-44 for reasons in addition to their respective dependencies upon allowable independent claims 1, 20, 25, 43, and 39. For instance, the proposed combination of Park and Jennings fails to teach or suggest a "nearly massless streamer" or "windsock," as described in claims 2 and 5, respectively. The Applicants note that the Official Action fails to state how this feature is allegedly disclosed in the cited references.

The Official Action also fails to state how the cited references allegedly disclose "a movable mass configured to rotate about an axis in response to airflow," as recited by claim 3 and a "color changing material," recited in claim 4.

Park and Jennings further fails to teach or suggest a sensor to detect "airflow magnitude," as recited in claim 6.

PATENT

Atty Docket No.: 200313170-1
App. Ser. No.: 10/780,631

Neither Park nor Jennings teach or suggest "a manipulator configured to grasp and position the airflow indicating device," as recited in claim 18. The Applicants note that the Official Action fails to state how this feature is allegedly disclosed cited references.

With respect to claim 24, neither reference teaches or suggests a "polc attached on a robotic device configured to traverse the room." The Applicant notes that the Official Action fails to state how this feature is allegedly disclosed by the cited references.

As stated above, neither Park nor Jennings teach or suggest a "means for determining airflow directions," as recited by claim 35.

Conclusion

In light of the foregoing, withdrawal of the rejections of record and allowance of this application are earnestly solicited.

Should the Examiner believe that a telephone conference with the undersigned would assist in resolving any issues pertaining to the allowability of the above-identified application, please contact the undersigned at the telephone number listed below.

PATENT**Atty Docket No.: 200313170-1**
App. Ser. No.: 10/780,631

Please grant any required extensions of time and charge any fccs due in connection with this request to deposit account no. 08-2025.

Respcctfully submitted,

Dated: November 8, 2006

By



Timothy B. Kang
Registration No.: 46,423

MANNAVA & KANG, P.C.
8221 Old Courthouse Road
Suite 104
Vienna, VA 22182
(703) 652-3817
(703) 865-5150 (facsimile)